



## Muriel Babey

Assistant Professor of Medicine (Endocrinology)

Medicine - Endocrinology, Gerontology, & Metabolism

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### Bio

#### BIO

Muriel Babey, M.D. is an Assistant Professor of Medicine in the Division of Endocrinology, Gerontology & Metabolism at Stanford University. She is a physician–scientist who specializes in metabolic bone disease and osteoporosis, with a focus on skeletal health during reproductive transitions and aging, as well as disorders of calcium and parathyroid metabolism.

Originally from Switzerland, Dr. Babey earned her medical degree in Switzerland and completed fellowship training in Endocrinology at the University of California, San Francisco. During her postdoctoral training in the laboratory of Holly Ingraham at UCSF, her work focused on identifying CCN3 as a maternal brain–derived osteoanabolic hormone critical for lactation, uncovering a previously unrecognized neuroendocrine axis regulating bone formation and marrow adiposity.

Dr. Babey directs a research program that integrates human cohort studies with mechanistic models to define endocrine pathways coordinating skeletal and metabolic resilience across reproductive transitions and aging. Her work centers on identifying secreted factors and interorgan communication networks that regulate bone health, with the goal of advancing translational strategies for osteoporosis and related metabolic diseases. Her research is supported by an NIH K08 award, and she is a recipient of the Endocrine Society Early Investigator Award and the ASBMR John Haddad Early Investigator Award.

#### ACADEMIC APPOINTMENTS

- Assistant Professor, Medicine - Endocrinology, Gerontology, & Metabolism
- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- ASBMR John Haddad Early Investigator Award, American Society for Bone and Mineral Research (2025)
- Endocrine Society Early Investigator Award, Endocrine Society (2025)
- Finalist, UCSF Physician-Scientist Scholar Program, University of California, San Francisco (2024)
- ENDO 2022 Annual Meeting Early Career Travel Award, Endocrine Society (2022)
- ENDO 2022 Annual Meeting Outstanding Abstract Award, Endocrine Society (2022)
- ASBMR 2021 Annual Meeting Young Investigator Travel Award, American Society for Bone and Mineral Research (2021)
- Weill Award for Junior Investigators in the Neurosciences, UCSF, University of California, San Francisco (2021)
- Scholar of the Year, Alameda Health System, Oakland, Alameda Health System (2017)

- Postdoctoral Research Fellowship, Novartis Foundation (2010)
- ENDO 2009 Annual Meeting Early Career Travel Award, Endocrine Society (2009)
- Postdoctoral Research Fellowship, Janggen-Poehn Foundation (2009)
- Postdoctoral Research Fellowship, Swiss National Research Foundation (2008)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member of Professional Advisory Board, Women Physician-Scientist Network (WPSN) (2025 - present)
- Member of Professional Advisory Board, Patient-Centered Outcomes Research Institute (PCORI) (2024 - present)
- Moderator/Co-Chair of Sessions at ASBMR, The American Society for Bone and Mineral Research (2024 - present)
- Moderator/Co-Chair of Sessions at ENDO, The Endocrine Society (2024 - present)
- Co-Chair, Bone and Mineral Special Interest Group, The Endocrine Society (2022 - present)
- Member, The American Society for Bone and Mineral Research (2009 - present)
- Member, The Endocrine Society (2008 - present)

## LINKS

- My Lab Site: <https://profiles.stanford.edu/murielbabeylab.stanford.edu>

## Publications

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### PUBLICATIONS

- **A maternal brain hormone that builds bone.** *Nature*  
Babey, M. E., Krause, W. C., Chen, K., Herber, C. B., Torok, Z., Nikkanen, J., Rodriguez, R., Zhang, X., Castro-Navarro, F., Wang, Y., Wheeler, E. E., Villeda, S., Leach, et al  
2024
- **No Evidence of Association Between Undercarboxylated Osteocalcin and Incident Type 2 Diabetes.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*  
Babey, M. E., Ewing, S. K., Strotmeyer, E. S., Napoli, N., Schafer, A. L., Vittinghoff, E., Gundberg, C. M., Schwartz, A. V.  
2022; 37 (5): 876-884
- **An Unusual Case of Colonic Intussusception Masquerading as a Transverse Colon Mass.** *The American journal of gastroenterology*  
Ramesh, R., Juhn, A., Babey, M., Patel, K., Liu, B.  
2016; 111 (7): 921
- **Osteoblast-Specific Loss of IGF1R Signaling Results in Impaired Endochondral Bone Formation During Fracture Healing.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*  
Wang, T., Wang, Y., Menendez, A., Fong, C., Babey, M., Tahimic, C. G., Cheng, Z., Li, A., Chang, W., Bikle, D. D.  
2015; 30 (9): 1572-84
- **Gender-Specific Differences in the Skeletal Response to Continuous PTH in Mice Lacking the IGF1 Receptor in Mature Osteoblasts.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*  
Babey, M., Wang, Y., Kubota, T., Fong, C., Menendez, A., ElAlieh, H. Z., Bikle, D. D.  
2015; 30 (6): 1064-76
- **Insulin-like growth factor-1 receptor in mature osteoblasts is required for periosteal bone formation induced by reloading.** *Acta astronautica*  
Kubota, T., Elalieh, H. Z., Saless, N., Fong, C., Wang, Y., Babey, M., Cheng, Z., Bikle, D. D.  
2013; 92 (1): 73-78
- **Pituitary surgery for small prolactinomas as an alternative to treatment with dopamine agonists.** *Pituitary*  
Babey, M., Sahli, R., Vajtai, I., Andres, R. H., Seiler, R. W.  
2011; 14 (3): 222-30
- **Familial forms of diabetes insipidus: clinical and molecular characteristics.** *Nature reviews. Endocrinology*

Babey, M., Kopp, P., Robertson, G. L.  
2011; 7 (12): 701-14

- **Acute onset of polyarthralgia and high anti-cyclic citrullinated peptide antibodies in a case of idiopathic granulomatous hypophysitis.** *The Journal of rheumatology*

Babey, M., Aeberli, D., Vajtai, I., Sahli, R.  
2009; 36 (1): 204-7

- **Morbidity in 201 patients with small sized meningioma treated by microsurgery.** *Acta neurochirurgica*

Reinert, M., Babey, M., Curschmann, J., Vajtai, I., Seiler, R. W., Mariani, L.  
2006; 148 (12): 1257-65; discussion 1266